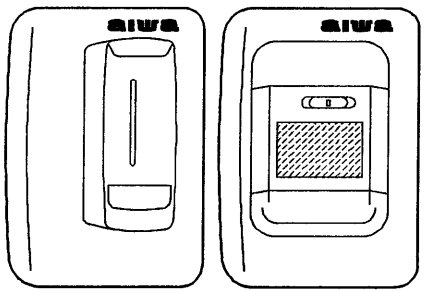
aiwa

aiwa SERVICE

HS-JS345W
HS-JS245W
HS-JS247W
HS-JS345G
HS-JS245G

SERVICE MANUAL



HS-JS245/247 HS-JS345

STEREO RADIO
CASSETTE RECORDER

• BASIC TAPE MECHANISM: 3ZM-1 R1

• TYPE: YU(JS345W,JS245W,JS247W)
Y(JS345G,JS245G)

SPECIFICATIONS

Frequency range	FM : 87.5 – 108 MHz AM : 530 – 1605 kHz (Y Model) AM : 530 – 1710 kHz (YU Model)
Output	15 mW + 15 mW (EIAJ 32 Ω) 20 mW + 20 mW (EIAJ 16 Ω) (Y Model)
Power supply	DC 3V using two R6 (size AA) batteries AC house current using an optional AC adaptor AC-620 or AC-300
Speaker	Diameter 36 mm, 8 Ω
Battery life	EIAJ 10 mW output playback Using manganese (R6P) batteries 3.5 hours Using alkaline batteries (LR6) 15 hours EIAJ 1 mW output playback Using manganese (R6P) batteries 4.5 hours Using alkaline batteries (LR6) 19 hours EIAJ recording Using manganese (R6P) batteries 2.5 hours Using alkaline batteries (LR6) 12 hours
Dimensions	HS-JS345 : 88.2(W) × 119(H) × 38.3(D) mm HS-JS245 : 88.2(W) × 119(H) × 37.8(D) mm
Weight	HS-JS345 : Approx. 180 g (excluding batteries) HS-JS245 : Approx. 166 g (excluding batteries)

Design and specifications are subject to change without notice.

S/M Code No. 09-94C-088-401

ELECTRICAL MAIN PARTS LIST

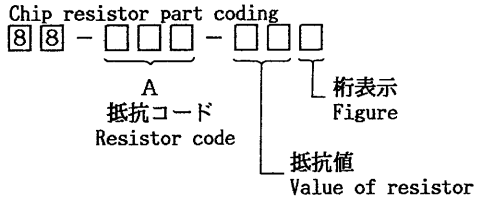
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-001-943-080		IC, TA8155F
	87-020-234-080		IC, TA7688F(S)
	87-017-370-080		IC, MM1038AFF
	87-001-379-080		IC, TA8122AF
	87-002-232-080		IC, NJM2073M〈345W, 345G〉
	87-017-906-080		IC, MM1206 AFFE
	87-017-923-080		IC, TK11822
TRANSISTOR			
	87-026-263-080		C-TR, RN1410
	89-327-143-080		C-TR, 2SC2714 (O)
	89-333-266-080		C-TR, 2SC3326B
	89-111-624-080		C-TR, 2SA1162Y
	89-502-114-080		FET, 2SK211Y
DIODE			
	87-001-166-080		C-DIODE, 1SS301〈345W, 345G〉
MAIN C.B			
BPF1	87-030-136-010		FLTR, BPMB8L 7.0
C1	87-010-178-080		C-CAP, S 1000P-50 B
C2	87-010-178-080		C-CAP, S 1000P-50 B
C3	87-016-462-080		C-CAP, S 1-16 F
C4	87-016-462-080		C-CAP, S 1-16 F
C5	87-010-322-080		C-CAP, S 100P-50 CH
C6	87-010-322-080		C-CAP, S 100P-50 CH
C7	87-010-184-080		C-CAP, S 3300P-50 B
C8	87-010-184-080		C-CAP, S 3300P-50 B
C9	87-010-197-080		C-CAP, S 0.01-25 B
C10	87-010-197-080		C-CAP, S 0.01-25 B
C11	87-010-499-040		CAP, E 22-6.3 GAS
C12	87-010-499-040		CAP, E 22-6.3 GAS
C13	87-010-220-080		C-CAP, S 0.018-25 B
C14	87-010-220-080		C-CAP, S 0.018-25 B
C15	87-010-188-080		C-CAP, S 6800P-50 B
C16	87-010-188-080		C-CAP, S 6800P-50 B
C17	87-016-462-080		C-CAP, S 1-16 F
C18	87-016-462-080		C-CAP, S 1-16 F
C19	87-016-462-080		C-CAP, S 1-16 F
C20	87-016-462-080		C-CAP, S 1-16 F
C21	87-016-462-080		C-CAP, S 1-16 F
C22	87-016-462-080		C-CAP, S 1-16 F
C23	87-016-170-080		C-CAP, TN 1-16 F95Q
C24	87-016-170-080		C-CAP, TN 1-16 F95Q
C25	87-010-196-080		C-CAP, S 0.1-25 F
C26	87-010-196-080		C-CAP, S 0.1-25 F
C29	87-016-462-080		C-CAP, S 1-16 F
C30	87-016-462-080		C-CAP, S 1-16 F
C31	87-016-462-080		C-CAP, S 1-16 F
C32	87-016-462-080		C-CAP, S 1-16 F
C35	87-010-174-080		C-CAP, S 470P-50 SL
C36	87-010-174-080		C-CAP, S 470P-50 SL
C37	87-010-178-080		C-CAP, S 1000P-50 B
C38	87-010-178-080		C-CAP, S 1000P-50 B
C39	87-012-141-080		C-CAP, S 0.22-16 F
C40	87-012-141-080		C-CAP, S 0.22-16 F
C41	87-010-588-040		CAP ELECT 220-2
C42	87-010-588-040		CAP ELECT 220-2
C101	87-010-501-040		E/CAP GAS 47-4
C102	87-010-176-080		C-CAP, S 680P-50 SL
C103	87-010-197-080		C-CAP, S 0.01-25 B
C103	87-010-805-080		C-CAP, S 1-16F
C104	87-010-197-080		C-CAP, S 0.01-25 B
C105	87-010-180-080		C-CAP, S 1500P-50 B
C106	87-010-197-080		C-CAP, S 0.01-25 B
C107	87-010-184-080		C-CAP, S 3300P-50 B
C108	87-010-197-080		C-CAP, S 0.01-25 B
C109	87-010-497-040		CAP, E 4.7-35 GAS
C110	87-010-587-040		E/CAP 100-2
C111	87-010-499-040		CAP, E 22-6.3 GAS
C114	87-010-587-040		E/CAP 100-2
C115	87-010-501-040		E/CAP GAS 47-4
C116	84-439-620-010		CAP, E 470-4
C117	87-010-503-040		CAP, E 220-4 GAS
C119	87-016-462-080		C-CAP, S 1-16 F
C120	87-010-178-080		C-CAP, S 1000P-50 B
C121	87-010-196-080		C-CAP, S 0.1-25 F
C122	87-010-197-080		C-CAP, S 0.01-25 B
C123	87-010-197-080		C-CAP, S 0.01-25 B
C125	87-010-501-010		CAP, E 47-4 GAS
C130	87-010-805-080		C-CAP, S 1-16F
C201	87-015-627-080		C-CAP, 1000P-50 B
C202	87-010-196-080		C-CAP, S 0.1-25 F
C203	87-010-197-080		C-CAP, S 0.01-25 B
C204	87-010-197-080		C-CAP, S 0.01-25 B
C205	87-010-339-080		C-CAP, S 33P-50 UJ
C206	87-010-326-080		C-CAP, S 3P-50 UJ
C207	87-010-197-080		C-CAP, S 0.01-25 B
C208	87-010-338-080		C-CAP, S 27P-50 UJ〈Y〉
C208	87-010-339-080		C-CAP, S 33P-50 UJ〈YU〉
C209	87-010-326-080		C-CAP, S 3P-50 UJ
C210	87-010-197-080		C-CAP, S 0.01-25 B
C211	87-012-156-080		C-CAP, S 220P-50 CH
C212	87-010-336-080		C-CAP, S 18P-50 UJ
C213	87-010-574-080		C-CAP, S 470P-50 UJ
C214	87-010-174-080		C-CAP, S 470P-50 SL
C215	87-016-462-080		C-CAP, S 1-16 F
C216	87-010-196-080		C-CAP, S 0.1-25 F
C218	87-010-196-080		C-CAP, S 0.1-25 F
C219	87-010-501-040		E/CAP GAS 47-4
C220	87-010-193-080		C-CAP, S 0.033-25 F
C221	87-010-322-080		C-CAP, S 100P-50 CH
C225	87-010-503-040		CAP, E 220-4 GAS
C226	87-010-195-080		C-CAP, S 0.068-25 F
C227	87-010-184-080		C-CAP, S 3300P-50 B
C228	87-010-147-080		C-CAP, S 3P-50 CH
C251	87-010-426-080		C-CAP, S 0.012-25 B
C252	87-010-426-080		C-CAP, S 0.012-25 B
C253	87-016-462-080		C-CAP, S 1-16 F
C254	87-016-462-080		C-CAP, S 1-16 F
CF1	87-008-444-010		FLTR KIT, FM 5RANK
CF2	87-008-284-010		FLTR, PFB 468J
CF3	87-008-444-010		FLTR KIT, FM 5RANK
CF4	87-030-200-010		VIB, CER CSB 456 F16 2M
D201	87-017-645-080		C-VARICAP, KV1580
D202	87-017-925-080		C-VARACTOR, KV1460
D203	87-017-925-080		C-VARACTOR, KV1460
J1	87-099-369-010		JACK, 3.5BK
J2	87-099-369-010		JACK, 3.5BK
J3	87-009-022-010		DC JACK LONG
L1	87-003-143-080		COIL, 4.7UH
L2	87-003-143-080		COIL, 4.7UH
L101	87-007-189-010		COIL, OSC
L102	87-003-143-080		COIL, 4.7UH
L103	87-003-089-010		COIL, 47UH
L104	87-003-089-010		COIL, 47UH
L201	80-HJ6-605-010		COIL, ROADING
L202	82-HJ6-611-010		BAR, ANT
L203	82-HJ6-603-010		COIL, RF FM
L204	80-HJ6-615-010		COIL, OSC FM, D
L205	87-007-335-010		COIL, OSC AM 100UH
L206	87-008-447-010		IFT, AM
R122	87-022-037-080		C-RES, M M/F0.68
SFR1	87-024-050-010		SFR 1K
SW1	87-036-082-010		SW, SLIDE 2-2-2

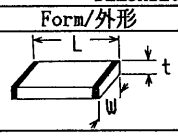
REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
SW2	87-036-379-080		C-SW, SL 1-1-2
SW3	87-036-379-080		C-SW, SL 1-1-2
SW4	87-036-145-080		C-SW, SLIDE 1-1-3
SW5	87-036-020-010		SW, SLIDE 2-2-2
SW6	87-036-110-010		SW, PUSH SPPB 62
SW7	87-036-374-010		SW, LEAF
TC1	87-011-154-010		CAP, TRIMER CER 6P
TC2	87-011-154-010		CAP, TRIMER CER 6P
TC3	87-011-155-010		TRIMER, CER 10P
TC4	87-011-155-010		TRIMER, CER 10P
TH100	87-026-256-090		THMS, HT-100
VR1	87-024-326-010		VOL 20KAX2 DIA8
CONTROL C.B			
C301	87-010-195-080		C-CAP, S 0.068-25 F〈345W, 345G〉
C302	87-010-213-080		C-CAP, S 0.015-50 B〈345W, 345G〉
C303	87-012-286-080		C-CAP, U 0.01-25 B〈345W, 345G〉
C304	87-016-253-080		C-CAP, TN 33-4 F95V〈345W, 345G〉
C305	87-010-800-080		C-CAP, TN1-10(A2)〈345W, 345G〉
C306	87-012-286-080		C-CAP, U 0.01-25 B〈345W, 345G〉
C307	87-010-746-080		C-CAP, TN 10-4〈345W, 345G〉
C308	87-012-286-080		C-CAP, U 0.01-25 B〈345W, 345G〉
C309	87-016-461-080		C-CAP, S 0.47-16 F〈345W, 345G〉
C310	87-016-462-080		C-CAP, S 1-16 F
C311	87-010-831-080		C-CAP, U 0.1-16F
C312	87-010-196-080		C-CAP, S 0.1-25 F
C313	87-016-296-080		C-CAP, TN 22-4 SV(A)
C314	87-010-315-080		C-CAP, S 27P-50 CH
C315	87-010-149-080		C-CAP, S 5P-50 CH
C316	87-010-152-080		C-CAP, S 8P-50 CH
C317	87-016-462-080		C-CAP, S 1-16 F〈247W, 245W, 245G〉
L301	87-005-784-080		C-COIL, DD(5CDL)
LED1	87-017-828-070		C-LED, SEC 1401C GRN
LED2	87-017-829-070		C-LED, SEC 1901C ORN
LED3	87-017-827-070		C-LED, SEC 1201C RED
SFR301	87-024-313-080		C-SFR, 10K RH03
SP1	87-048-299-010		SPKR, DIA36〈345W, 345G〉
SW301	87-036-145-080		C-SW, SLIDE 1-1-3〈345W, 345G〉
SW301	87-036-304-080		C-SW, SL 1-1-2〈247W, 245W, 245G〉
VR301	87-099-664-010		VR, 100K B
HEAD FLEX. C.B			
SW8	87-036-357-019		SW, SL 2-2-2(NC)
RPH1	87-046-408-019		HEAD ASSY, R PH(W/PCB-C)

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

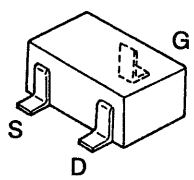
チップ抵抗部品コードの成り立ち
Chip resistor part coding



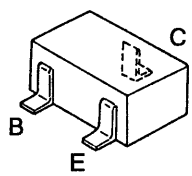
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法(mm) Form/外形	L	W	t	Resistor Code : A 抵抗コード : A
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ～0.7	128

TRANSISTOR ILLUSTRATION



2SK211



2SA1162
2SC2714
2SC3326
RN1410

PRACTICAL SERVICE FIGURE

< RADIO SECTION >

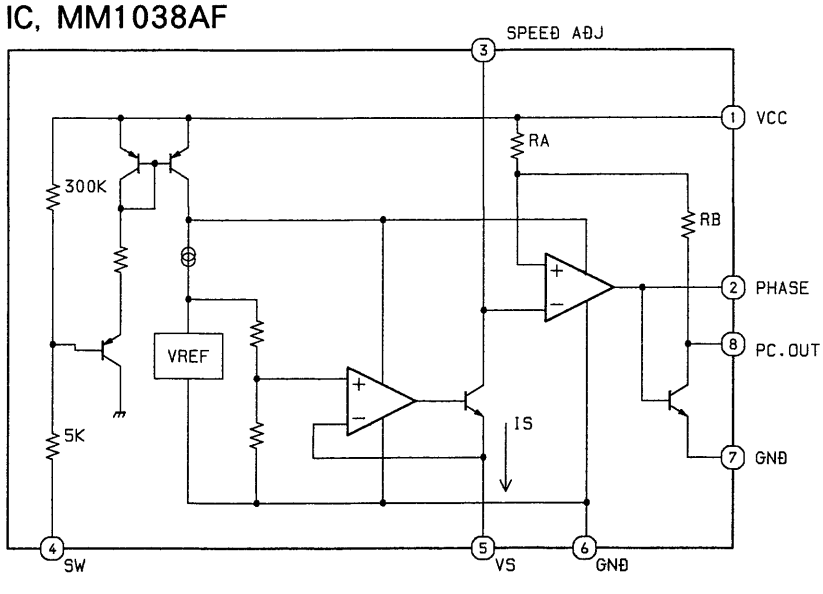
Sensitivity :		
(IHF,THD 3%)	FM	14dB ± 5dB (88MHz)
		14dB ± 5dB (100MHz)
		14dB ± 5dB (108MHz)
(S/N 10dB)	AM	50dB ± 4dB (630kHz)
		49dB ± 4dB (999kHz)
		49dB ± 4dB (1440kHz)
Intermediate frequency :	FM	10.7MHz ± 0.1MHz
	AM	468kHz ± 3.0kHz
FM stereo separation :	FM	20dB ± 4dB (100MHz)

< TAPE RECORDER SECTION >

Tape speed :	3015Hz ± 50Hz
Wow & flutter :	Less than 0.52% (RMS)
Take-up torque :	25~40g-cm (FWD, REV)
F.F torque :	More than 70g-cm
Rew torque :	More than 70g-cm
Back tension :	1.0g-cm~4.0g-cm (FWD, REV)
S/N ratio :	More than 44dB (DC,PB)
Distortion :	Less than 3.0% (DC,PB)
Noise level :	Less than 5.0mV (Vol MAX, DC)
	Less than 0.3mV (Vol MIN, DC)
Frequency response :	63Hz ± 4dB~8kHz ± 4.5dB (NORMAL)
	63Hz ± 4dB~10kHz ± 5dB (CrO_2, METAL)

IC BLOCK DIAGRAM

IC, MM1038AF

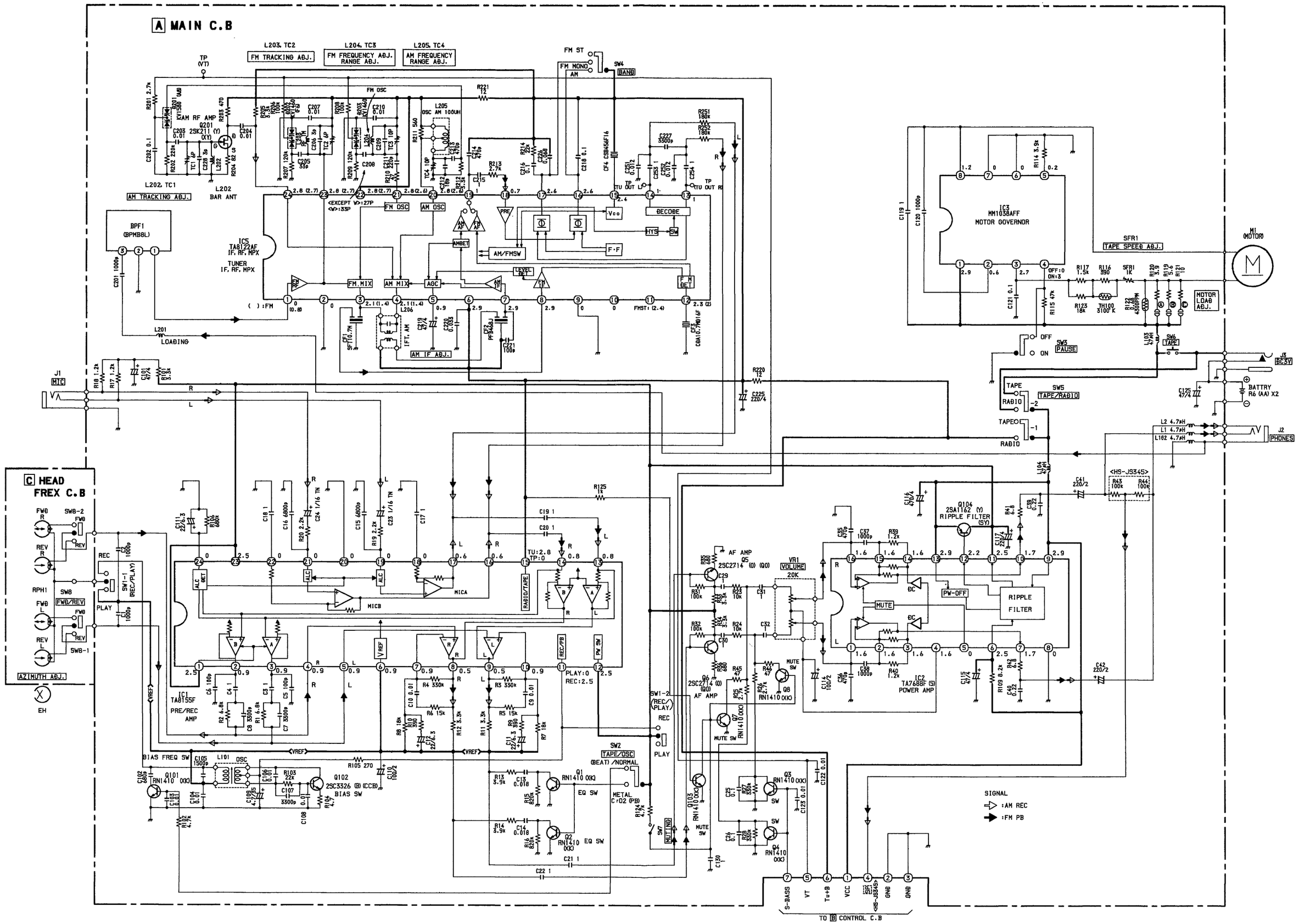


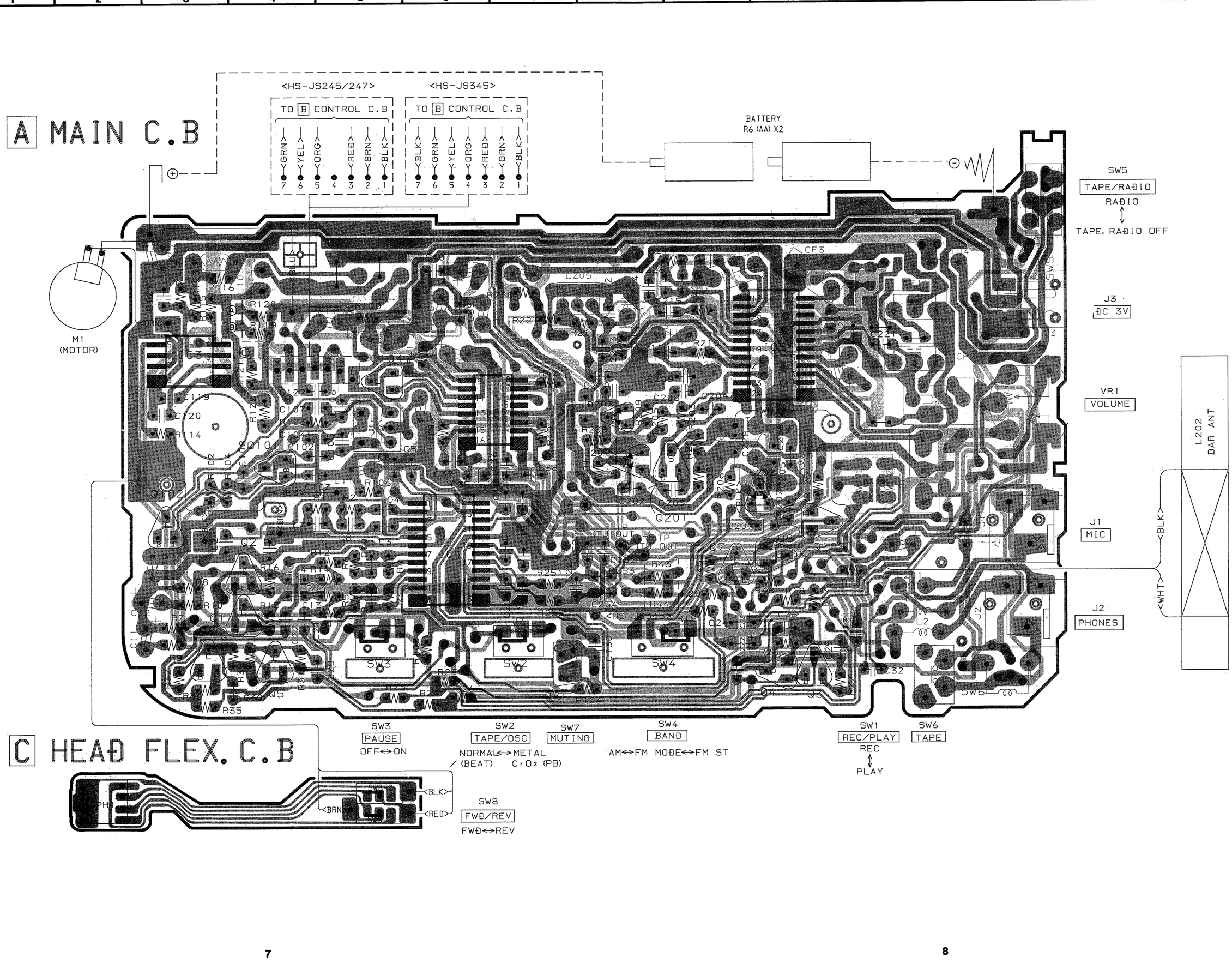
■ ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

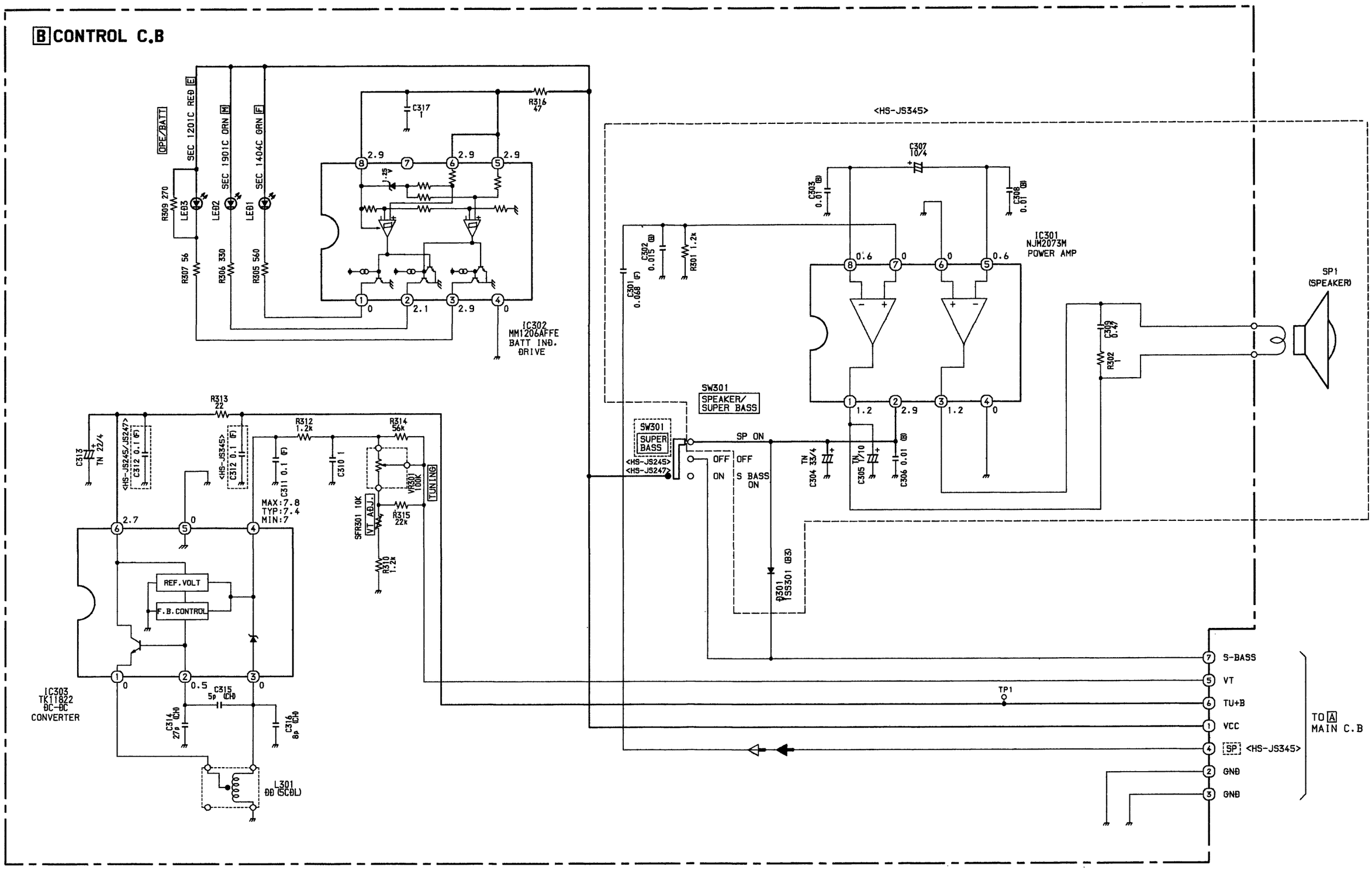
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	84-HJ6-902-210		IB, EX-ESC〈245G, 345G〉
1	84-HJ6-901-010		IB, EX-ESF〈247W, 245W, 345W〉
2	87-080-029-010		CLIP-BELT ASSY
3	87-041-073-010		CM-S35A
4	87-048-278-010		HP-24NA〈245G, 345G〉
4	87-048-305-010		HP-A170〈245W, 345W〉
4	87-048-306-010		HP-A170(G)〈247W〉

SCHEMATIC DIAGRAM – 1 (MAIN SECTION)



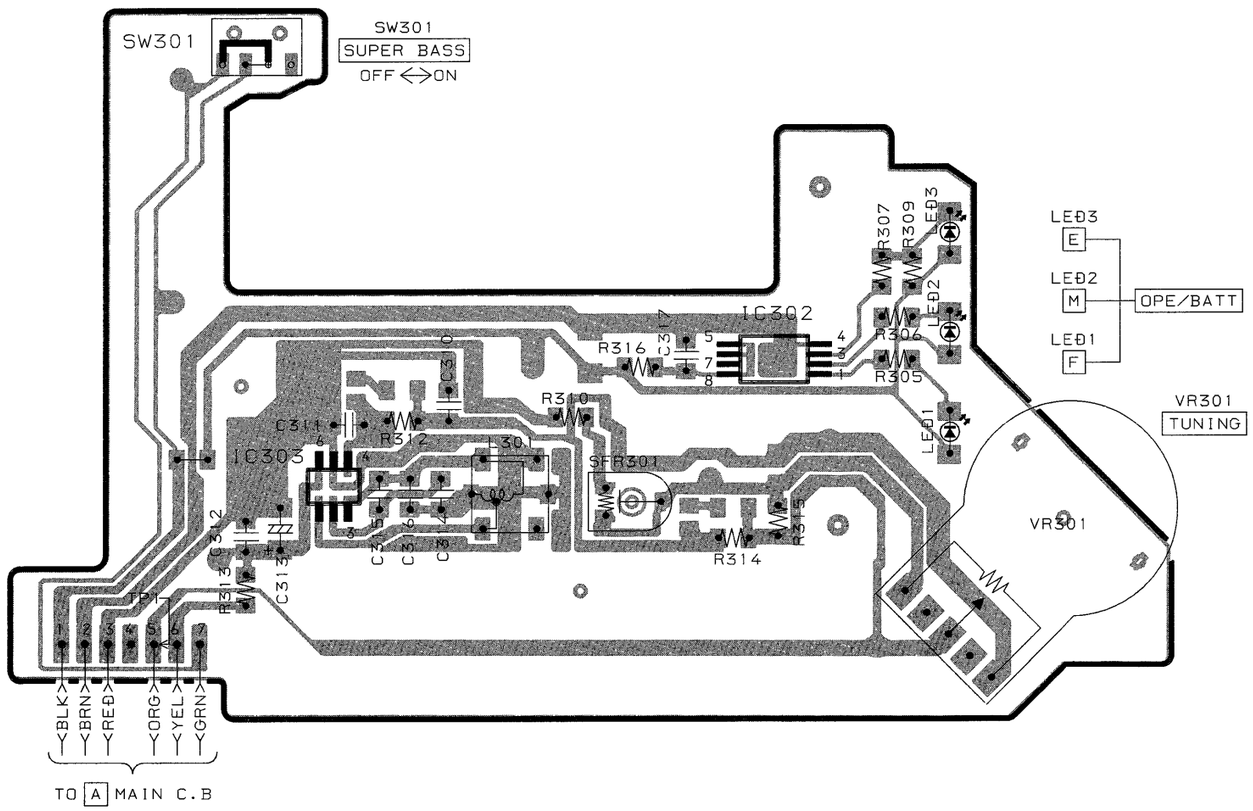

A MAIN C.B
<HS-JS245/247>
TO B CONTROL C.B
YGRN YEL ORG RED BRN BLK
7 6 5 4 3 2 1
<HS-JS345>
TO B CONTROL C.B
BLK GRN YEL ORG RED BRN BLK
7 6 5 4 3 2 1
BATTERY
R6 (AA) X2
M1
(MOTOR)
SW5
TAPE/RADIO
RADIO
TAPE, RADIO OFF
J3
DC 3V
VR1
VOLUME
L202
BAR ANT
J1
MIC
J2
PHONES
BLK
WHT
SW3
PAUSE
OFF↔ON
SW2
TAPE/OSC
NORMAL↔METAL
(BEAT) CrO2 (PB)
SW7
MUTING
SW4
BAND
AM↔FM MODE↔FM ST
SW1
REC/PLAY
REC
PLAY
SW6
TAPE
C HEAD FLEX. C.B
SW8
FWD/REV
FWD↔REV
BLK
BRN
RED

B CONTROL C.B


OPE/BATT
SEC 1201C RED
SEC 1901C ORN
SEC 1404C GRN
LED3
LED2
LED1
R309 270
R307 56
R306 330
R305 560
C317 1
R316 47
IC302 MM1206AFFE BATT IND. DRIVE
<HS-JS345>
C307 10/4
C303 0.01
C308 0.01
C302 0.015
C301 0.068
R301 1.2k
IC301 NJM2073M POWER AMP
SP1 (SPEAKER)
C309 0.47
R302 1
SW301 SPEAKER/ SUPER BASS
SW301 SUPER BASS
<HS-JS245>
<HS-JS247>
SP ON
OFF
ON
S BASS ON
C304 33/4
C305 10/10
C306 0.01
D301 1SS301
R313 22
R312 1.2k
R314 56k
C313 22/4
C312 0.1
C311 0.1
C310 1
VR301 100K
TUNING
SFR301 10K VT ADJ.
R315 22k
R310 1.2k
MAX:7.8
TYP:7.4
MIN:7
REF.VOLT
F.B.CONTROL
IC303 TK11822 DC-DC CONVERTER
C315 5p (CH)
C314 27p (CH)
C316 8p (CH)
L301 DD (SDDL)
TP1
S-BASS
VT
TU+B
VCC
SP
GND
GND
TO A MAIN C.B

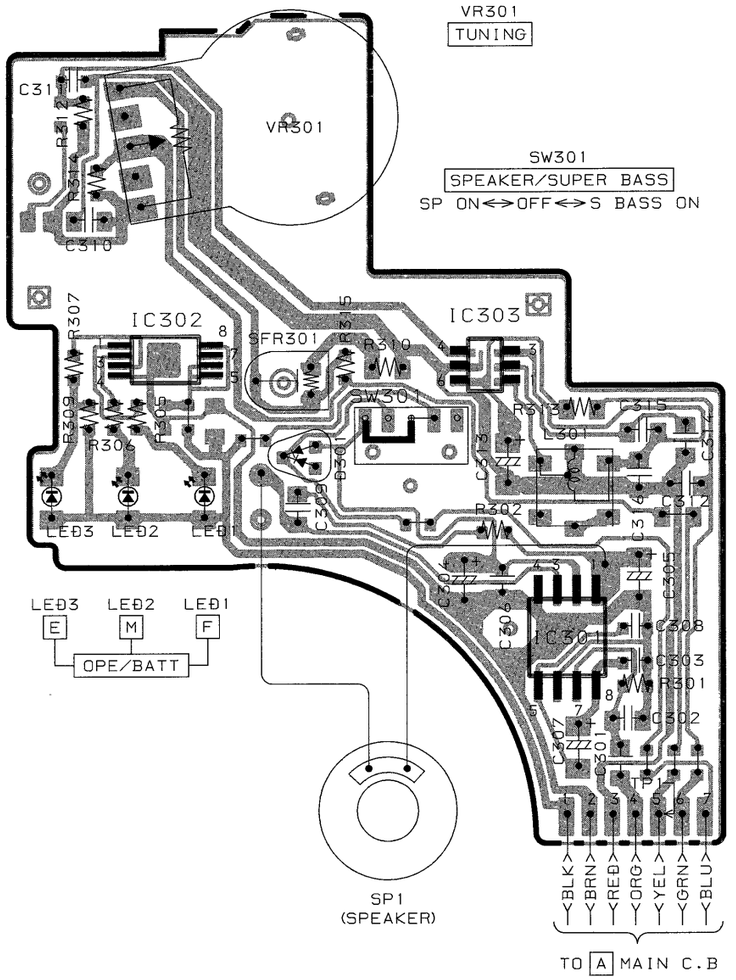
<HS-J245/247>

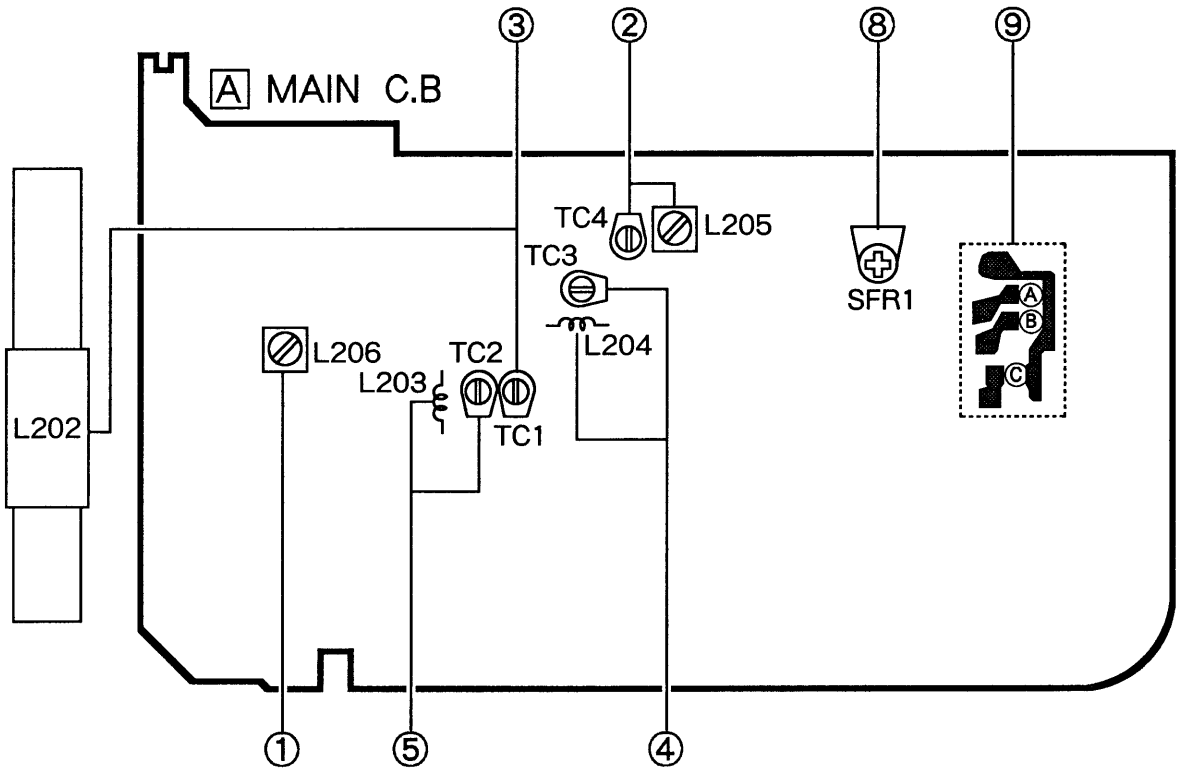
B CONTROL C.B

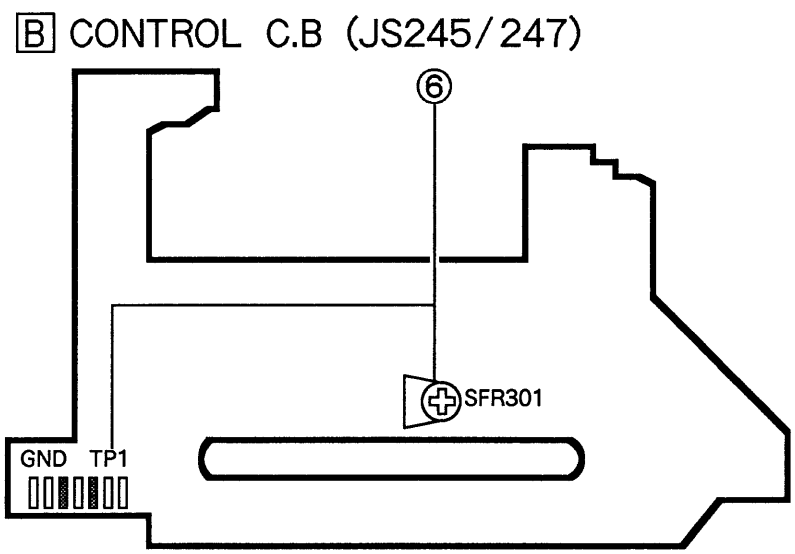


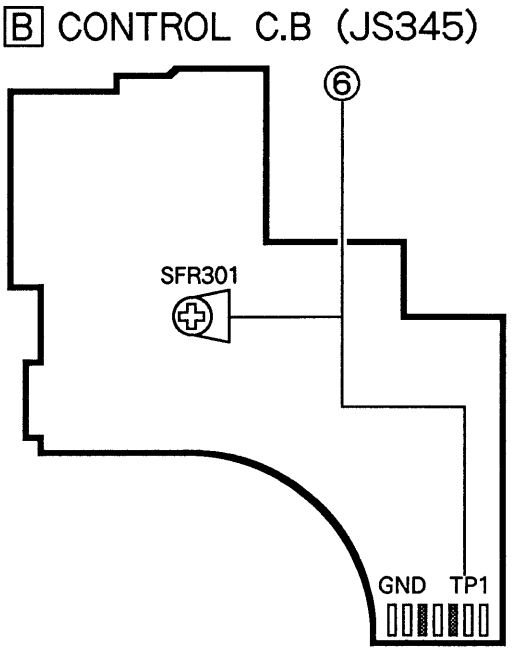
<HS-JS345>

B CONTROL C.B




A MAIN C.B
③
②
⑧
⑨
TC4
L205
TC3
SFR1
L204
L206
TC2
L203
TC1
L202
A
B
C
①
⑤
④


B CONTROL C.B (JS245/247)
⑥
SFR301
GND
TP1


B CONTROL C.B (JS345)
⑥
SFR301
GND
TP1

< RADIO SECTION >

1. AM IF Adjustment
   L206 ····· 468kHz ± 2.5kHz

2. AM Frequency Range Adjustment
   L205 ····· 515kHz ± 5kHz (Y)
   517kHz ± 5kHz (YU)
   TC4 ····· 1635kHz ± 10kHz (Y)
   1750kHz ± 10kHz (YU)

3. AM Tracking Adjustment
   L202 ····· 630kHz
   TC1 ····· 1440kHz

4. FM Frequency Range Adjustment
   L204 ····· 87.3MHz ± 0.1MHz (Y)
   87.0MHz ± 0.1MHz (YU)
   TC3 ····· 108.0MHz ± 0.1MHz (Y)
   108.0MHz ± 0.1MHz (YU)

5. FM Tracking Adjustment
   L203 ····· 88.0MHz
   TC2 ····· 108.0MHz

6. FM VT Adjustment
   Settings : • Test point : TP1
   • Adjustment location : SFR301
   • SUPPER BASS SW : OFF
   Method : • Set to FM LOW END and adjust SFR301 so that the test point becomes 1.00V ± 0.01V.

< TAPE RECORDER SECTION >

7. Azimuth Adjustment
   This model is no azimuth adjustment.

8. Tape Speed Adjustment.
   Settings : • Test tape : TTA – 100 (TTA – 111S)
   • Test point : PHONES JACK (J2)
   • Adjustment location : SFR1
   Method : • Play back the test tape, adjust for 3000Hz at FWD and ± 45Hz at REV.

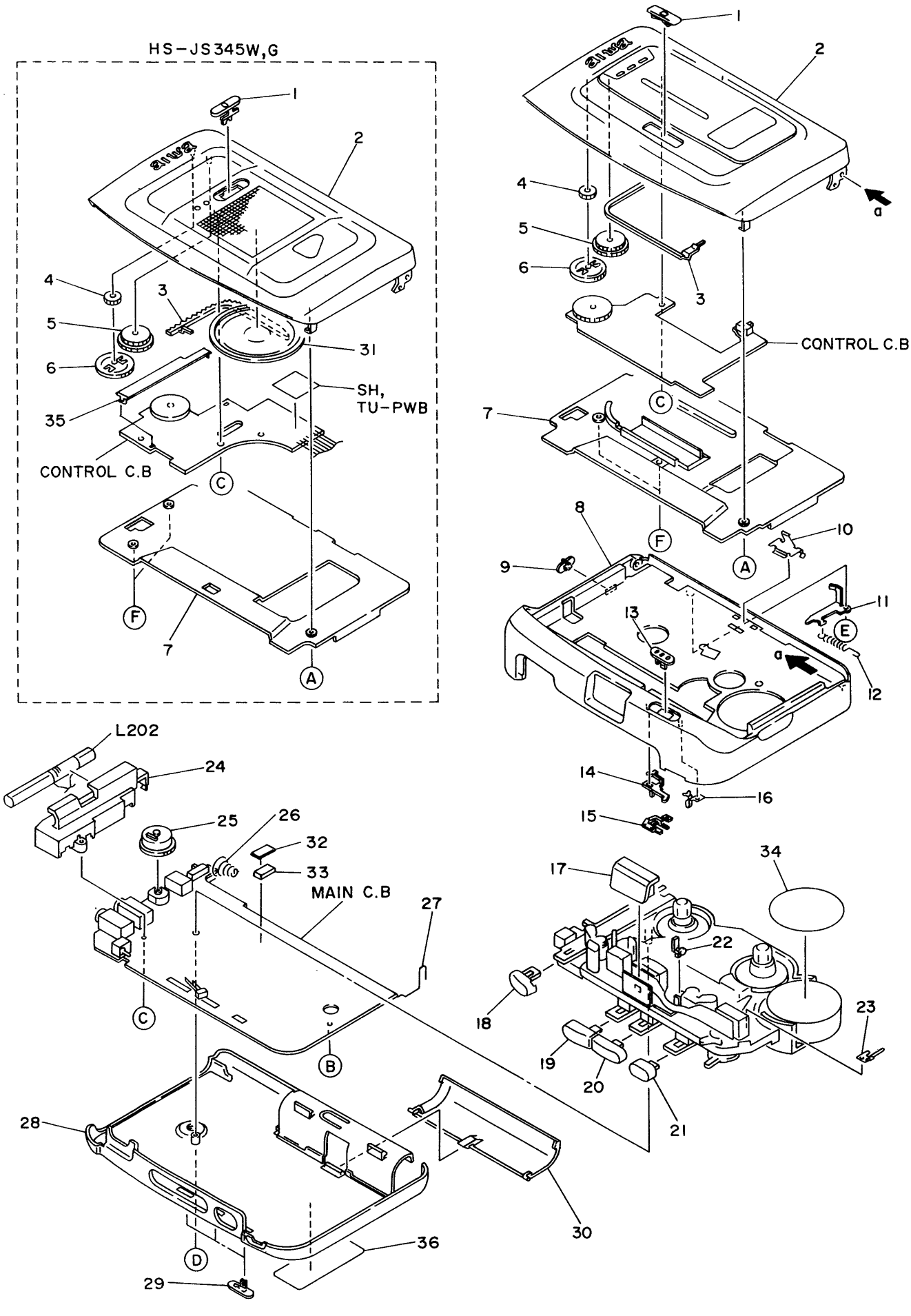
9. Motor load Adjustment
   To discriminate whether load adjustment is necessary or not.
   Perform the STOP→PLAY and REVERSE operations (or PAUSE ON → OFF) after the motor wow is replaced. When the tape starts running smooth, this adjustment is not necessary. If wow is conspicuous at the begining of the tape-run, perform this adjustment following the procedure.
   • Simple load adjustmet ·····
   ····· (See the SCHEMATIC and WIRING DIAGRAMS)
   1. Solder only medium resistor pattern (B) of the MOTOR AND GOVERNOR MATCHING ADJ. resistor group.
   2. Set the tape speed (using speed adjustment SFR).
   3. Restrict the motor rotation by hand. (or turn PAUSE on)
   4. Remove your hand and listen to the begining of the tape-run.
   5. When the rise of tape running is smooth, on more adjustment is necessary. If wow continues for 1 to 2 seconds at the rise time, reduce the combined resistance according to procedure 6 and check that the tape starts running smooth.
   6. Solder the resistor pattern according to the table below.

Pattern	(Procedure 1 above)	Step (i)	Step (ii)	Step (iii)
3.9 Ω (A)	Open	Open	Solder	Open
5.6 Ω (B)	Solder	Open	Open	Solder
10 Ω (C)	Open	Solder	Solder	Solder

   7. Finally re-check the tape speed.

   Caution : Cool the patterns down to normal temperature after soldering. If the pattern remains heated, the governor circuit does not operate normally.

MECHANICAL EXPLODED VIEW 1/1

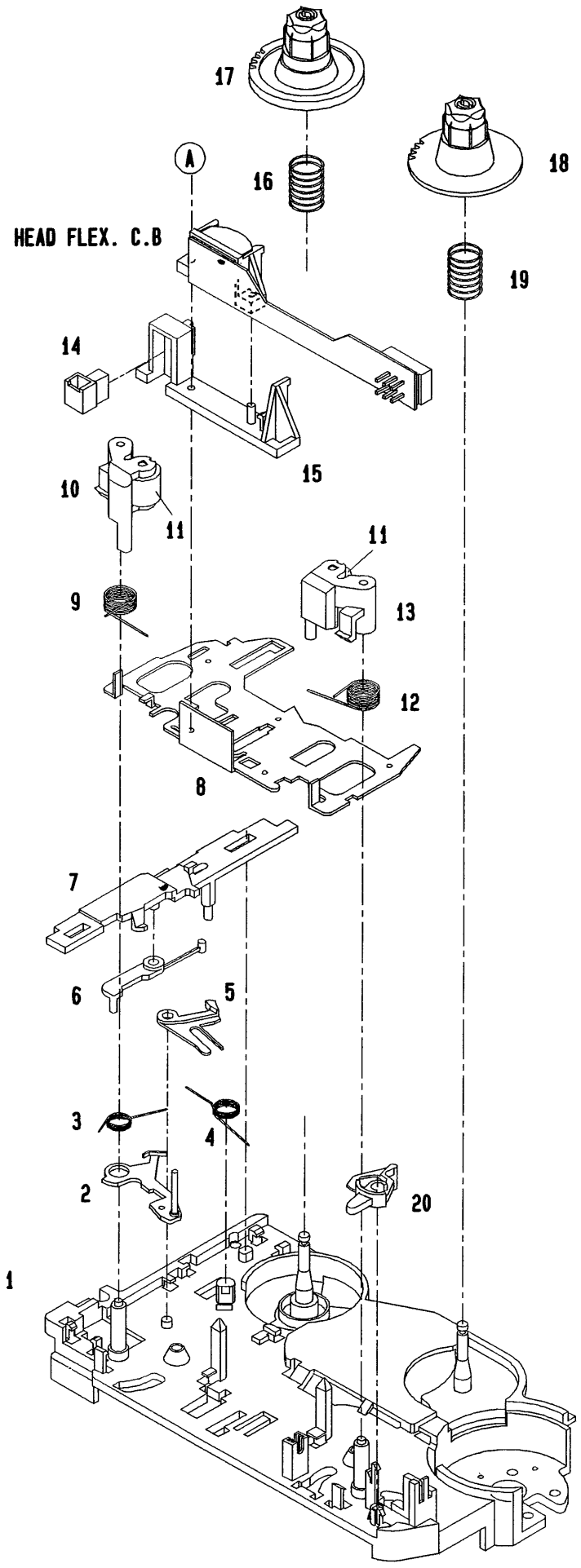


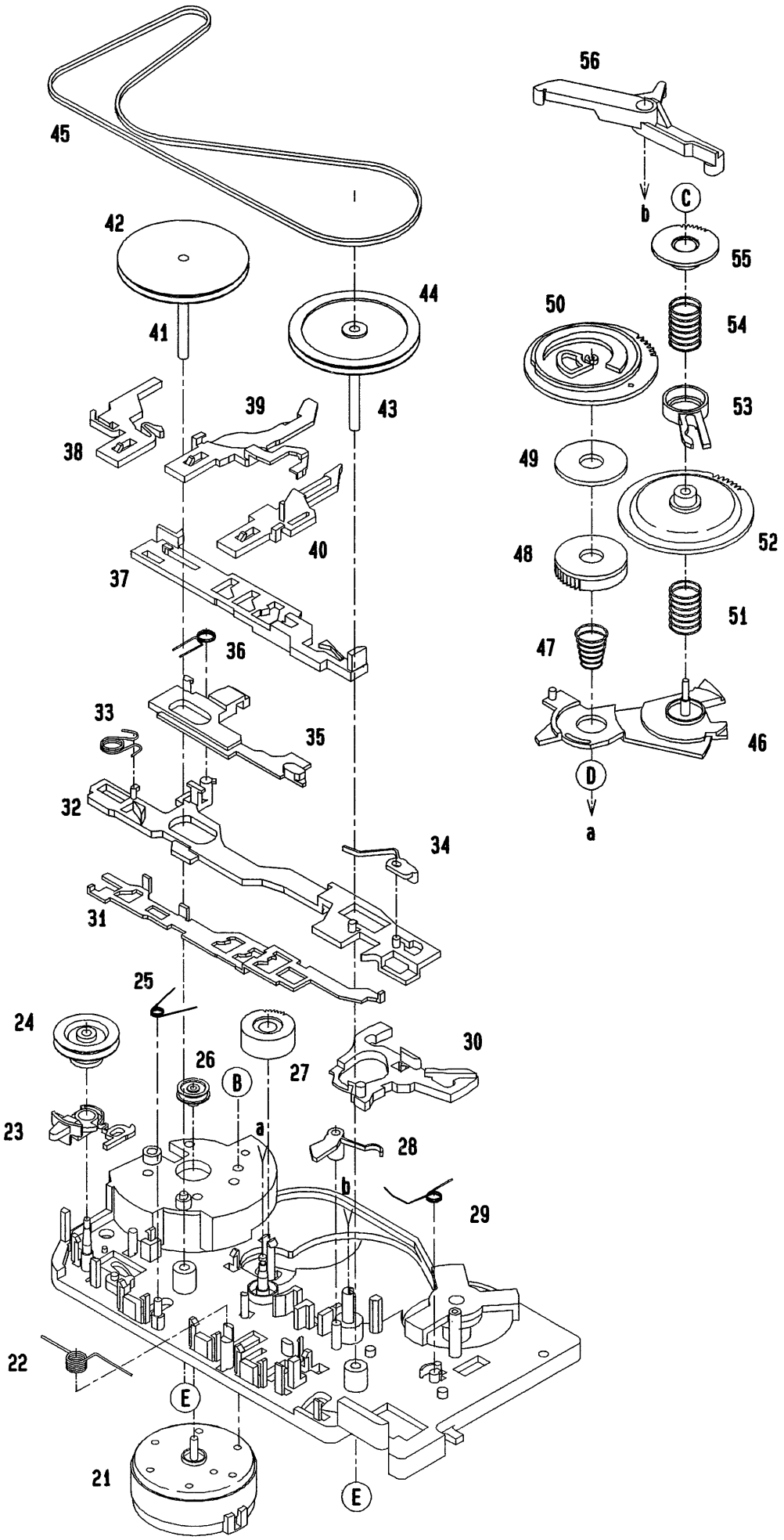
MECHANICAL PARTS LIST 1／1

DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	84-HJ7-004-010		KNOB, SL SB〈247W, 245W, 245G〉
1	84-HJ6-013-010		KNOB, SLIDE, SP-SB〈345W, 345G〉
2	09-028-189-010		LID, CASS ASSY〈345G〉
2	09-028-188-010		LID, CASS ASSY〈247W〉
2	09-028-186-010		LID, CASS ASSY〈245W〉
2	09-028-187-010		LID, CASS ASSY〈245G〉
2	09-028-190-010		LID, CASS ASSY〈345W〉
3	84-HJ7-018-010		POINTER-N〈247W, 245W, 245G〉
3	84-HJ6-019-010		POINTER, TU〈345W, 345G〉
4	82-HJ6-206-010		GEAR, TUN B
5	82-HJ6-205-110		GEAR TUN A
6	82-HJ6-016-310		KNOB TUN
7	84-HJ6-201-010		COVER, CASS〈345W, 345G〉
7	84-HJ7-201-010		COVER, CASS〈247W, 245W, 245G〉
8	84-HJ6-005-010		FRAME, CENTER
9	84-HJ6-014-010		KNOB SLIDE, TR
10	84-HJ6-214-010		SPR, C-PUSH
11	84-HJ6-203-010		LVR, RP
12	84-HJ6-209-010		SPR-E, RP
13	84-HJ6-017-010		KNOB, OPEN
14	84-HJ6-204-010		LVR, C-LOCK
15	84-HJ6-206-010		HLDR, EL
16	84-HJ6-210-010		SPR, EL
17	84-HJ6-008-010		P-BUTTON, PLAY
18	84-HJ6-012-010		P-BUTTON, REC
19	84-HJ6-011-010		P-BUTTON, REW
20	84-HJ6-010-010		P-BUTTON, FF
21	84-HJ6-009-010		P-BUTTON, STOP
22	84-HJ6-205-010		LVR, E-LOCK
23	84-HJ6-211-010		SPR, PU
24	84-HJ6-202-010		HLDR, ANT
25	84-506-028-110		KNOB VOLUME
26	84-HJ6-208-010		TERM, BATT M
27	84-HJ6-207-010		TERM, BATT P
28	84-HJ6-030-010		CAB, REAR ASSY〈247W, 245W, 345W〉
28	84-HJ6-037-010		CAB, REAR GLD ASSY〈245G, 345G〉
29	84-HJ6-015-010		KNOB, SL A
30	84-HJ6-007-010		LID, BATT〈247W, 245W, 345W〉
30	84-HJ6-038-010		LID, BATT GLD〈245G, 345G〉
31	87-048-299-010		SPKR, DIA36〈345W, 345G〉
32	84-HJ6-592-010		SPACER 7X7X1.0
33	84-HJ6-594-010		SPACER 7X7X1.4
34	84-HJ6-216-010		LBL, MOTOR 3ZM-1
35	84-HJ6-213-010		SPACER, TU〈345W, 345G〉
36	84-HJ7-017-010		SH, SPEC 247〈247W〉
36	84-HJ7-016-010		SH, SPEC WYU〈245W〉
36	84-HJ6-039-010		SH, SPEC(GLD)〈345G〉
36	84-HJ7-021-010		SH, SPEC(GLD)〈245G〉
36	84-HJ6-031-010		SH, SPEC(WYU)〈345W〉
A	87-067-385-010		SCREW VT 1.4X2.5 HL
B	87-263-533-310		V+1.7-6 CR
C	87-067-384-010		VT+1.4-3.5(HL)
D	87-067-430-010		VT (FOR RESIN)1.4-5 (BLK)HL
E	87-078-124-010		S, HINGE 1.4-0.9-2 HL
F	87-067-732-010		VT1.4-3HL

TAPE MECHANISM EXPLODED VIEW 1／1



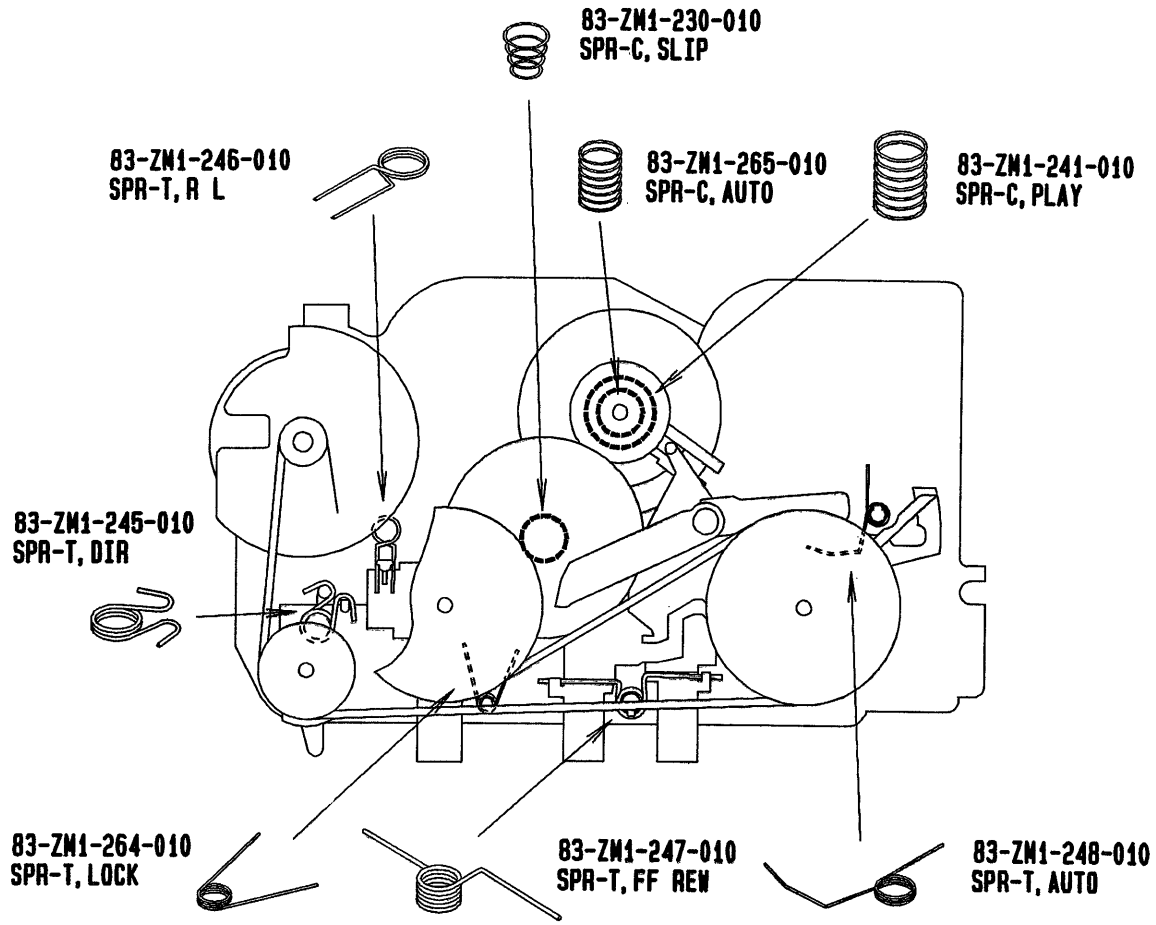

45
42
41
44
43
39
38
40
37
36
33
35
32
34
31
25
24
26
B
27
30
23
a
28
b
29
22
E
21
E
56
b
C
55
50
54
53
49
52
48
51
47
46
D
a

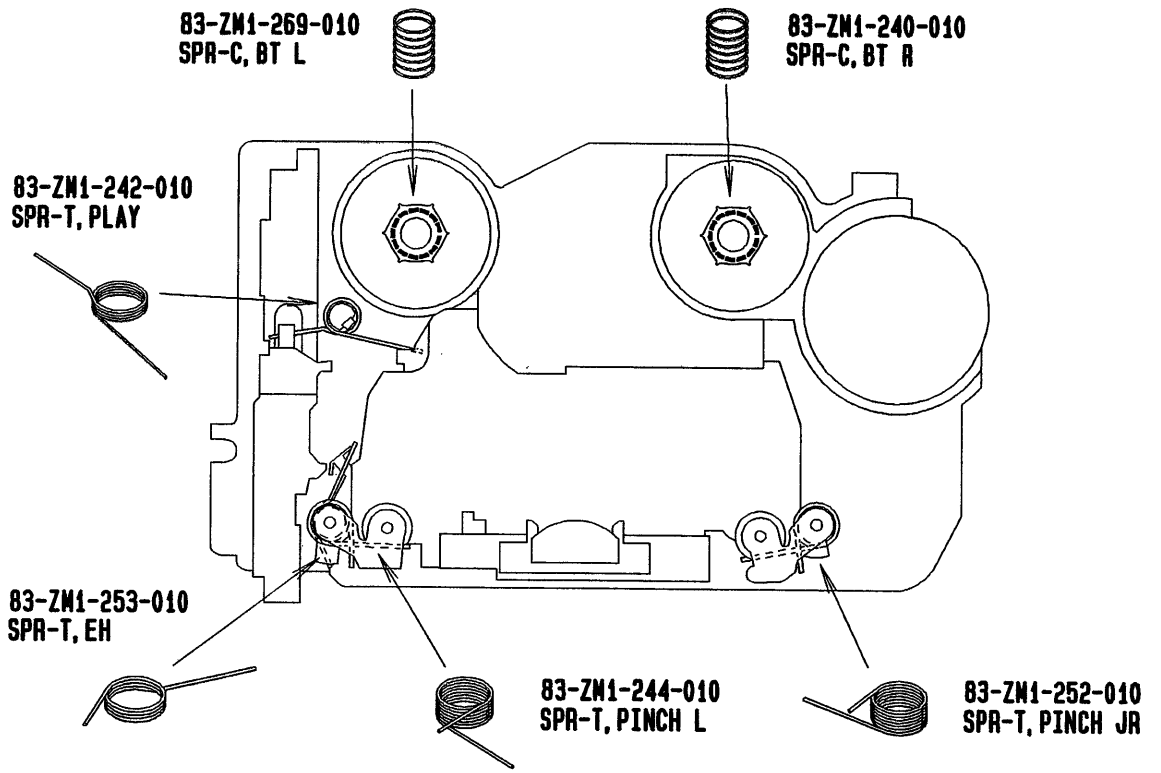
TAPE MECHANISM PARTS LIST 1／1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	83-ZM1-201-01K		CHAS, MAIN
2	83-ZM1-272-11K		LVR ASSY, EH
3	83-ZM1-253-010		SPR-T, EH
4	83-ZM1-242-010		SPR-T, PLAY
5	83-ZM1-260-010		LVR, REC LOCK
6	83-ZM1-250-010		LVR, REC
7	83-ZM1-249-010		LVR, BTN REC
8	83-ZM1-206-01K		LVR, BTN PLAY
9	83-ZM1-244-010		SPR-T, PINCH L
10	83-ZM1-220-010		LVR, PINCH L
11	83-ZM1-255-010		PINCH ROL ASSY
12	83-ZM1-252-010		SPR-T, PINCH JR
13	83-ZM1-219-010		LVR, PINCH R
14	86-541-559-010		EH 2
15	83-ZM1-263-01K		GUIDE, TAPE
16	83-ZM1-269-010		SPR-C, BT L
17	83-ZM1-235-01K		GEAR, REEL L
18	83-ZM1-234-01K		GEAR, REEL R
19	83-ZM1-240-010		SPR-C, BT R
20	83-ZM1-210-010		BTN DIR
21	87-045-355-019		MOTOR (BCH3B13)
22	83-ZM1-247-010		SPR-T, FF REW
23	83-ZM1-266-01K		BTN, MODE CHG
24	83-ZM1-236-01K		PULLEY, BELT
25	83-ZM1-264-010		SPR-T, LOCK
26	83-ZM1-237-01K		PULLEY, MOTOR
27	83-ZM1-233-010		GEAR, R
28	83-ZM1-267-010		LVR, DEF AUTO
29	83-ZM1-248-010		SPR-T, AUTO
30	83-ZM1-211-010		LINK, AUTO
31	83-ZM1-216-01K		LVR, LOCK
32	83-ZM1-214-01K		LVR, DIR
33	83-ZM1-245-010		SPR-T, DIR
34	83-ZM1-268-010		LVR, REC AUTO
35	83-ZM1-215-01K		LVR, FR
36	83-ZM1-246-010		SPR-T, R L
37	83-ZM1-261-010		LVR, CUE REV
38	83-ZM1-209-010		LVR, BTN STOP
39	83-ZM1-207-01K		LVR, BTN FF
40	83-ZM1-208-01K		LVR, BTN REW
41	83-ZM1-278-010		SHAFT, CAP 2.0SEF
42	83-ZM1-222-010		FLY-WHL, R
43	83-ZM1-275-019		SHAFT, CAPSTAN 2.0B
44	83-ZM1-225-010		FLY-WHL, L
45	83-ZM1-259-010		BELT
46	83-ZM1-217-01K		LVR, PLAY
47	83-ZM1-230-010		SPR-C, SLIP
48	83-ZM1-229-01K		GEAR, SLIP
49	83-ZM1-228-019		FELT
50	83-ZM1-227-01K		GEAR, AUTO
51	83-ZM1-241-010		SPR-C, PLAY
52	83-ZM1-231-010		GEAR, PLAY
53	83-ZM1-218-010		LVR, SLIP
54	83-ZM1-265-010		SPR-C, AUTO
55	83-ZM1-232-010		GEAR, FR
56	83-ZM1-212-010		LVR, AUTO
A	87-078-111-019		S-SCRW, V+1.7-6
B	87-078-100-019		S-SCRW, V+1.7-2.5
C	87-078-132-010		PW, 1.2-3.5-0.25C-CUT
D	87-078-133-010		PW, 2.6-4.15-0.13
E	87-078-086-019		SOMA, 1.5-3.5-0.3 SLT

SPRING APPLICATION POSITION





REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, SERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

サービス技術ニュース	
番 号	連絡内容
G－　－	
G－　－	
G－　－	

アイワ株式会社
AIWA CO.,LTD.

931261, 750038
Tokyo Japan

〒110 東京都台東区池之端 1 － 2 －11　　☎ 03 (3827) 3111 （代表）

Printed in Singapore